

Geological mapping of slope for diversion tunnel inlet

Scale 1:100

NOTE



Legend

- [Symbol: Box with 'Jn'] Joint number and attitude (Dip direction/Dip)
- [Symbol: Box with 'Fn'] Fault number and attitude (Dip direction/Dip)
- [Symbol: Circle with 'D'] Dripping

Summary of Geological Conditions	
Slope Elevation	EL. 1243.50-EL. 1255.67
Rock types	Mi+Qu Sch
Rock hardness	Medium hard rock
Degree of weathered	Moderately weathered
Rock attitude (Dip direction/dip)	40° / 40°
Rock mass classification	III
Groundwater situation	Dry local dripping

STAKE	TUNNEL	ROCKTYPEK	UCS	GROUND WATER	RQD	Jn	Fn	Jn	Fn	SRF	RQD _{10m} /Jn _{10m} Joint/Jaw SRF	ROCKMASS CLASS	DATE
Geometrical													
NO	Dip direction	Dip angle	SEPARATION (m)	JOINTS GROUP	SPACING (mm)	PERSISTENCE	ROUGHNESS/ APPEARANCE	FILLING	WEATHER OF ROCK WALL	INFLUENCEDZONE (m)	NATURE	Very high	>250
J1	40	40	C1	SPI	15	C3	R2	F1, F4	W3			High	100-250
J2	185	72	C2	SPI	8	C3	R2	F1, F4	W3			medium high	50-100
F1	40	24				C5	R2	F9, F12	W3	0.1-0.3	FC2	moderate	25-50
F2	40	40				C5	R4	F9, F12	W3	0.1-0.3	FC2	Very low	1-5

SEPARATION(TEMPERATURE)	SPACING OF JOINTS	PERSISTENCE	ROUGHNESS/APPEARANCE	FILLING	FAULT NATURE	GROUND WATER CONDITION
C0:Very tight <0.1mm	SP1:VERY WIDE >2m	C1:Very Low <1m	R1:very rough surfaces	F1:rock siller	FC1:downthrust fault	GW1: Completely dry
C1:Tight 0.1-0.5mm	SP2:WIDE 0.6-2m	C2:Low 1-3m	R2:rough surfaces	F2:rock siller	FC2:upthrust fault	GW2: Damp
C2:open 0.5-2.5mm	SP3:200-600mm	C3:medium 3-15m	R3:slightly rough surfaces	F3:rock fragmencs	FC3:strike-slip fault	GW3: Wet
C3:open 2.5-10mm	SP4:60-200mm	C4:High 10-20m	R4:smooth surfaces	F4:rock powder	FC4:Crushed bedding plane (zone)	GW4: Dripping
C4:wide 10-30mm	SP5:<60mm	C5:Very high >20m	R5:slickensided surfaces	F5:Calcareous film	FC5:Alteration zone	GW5: Flowing
C5:Very wide >30mm		E0: Left wall	A1:planar	F6:Calcareous vein	F13:argillized selenite	
		E1: Top wall	A2:stepped	F7:Quartz vein	F14:clay coarse	
		E2: Right wall	A3:bulding	F15:weak intercalated layers siltized		
				F16:Fractured zone		

FOR INFORMATION

TO: FROM: DATE:
 SUBJECT: RE: ATTACHMENT:

RE: RE: RE: RE:

</